

JEE MAIN GRAVITATION — ACCELERATION DUE TO GRAVITY AND ITS VARIATION (ALTITUDE, DEPTH, ROTATION) — PYQS

Max. Marks: 8
Questions: 2

Section A (MCQ) — 2 questions

Q.1 When one moves from a point 16 km below the earth's surface to a point 16 km above the earth's surface, the change in g is approximately α %. The value of α is _____.

(Take radius of the earth = 6400 km.)

[JEE Main 2026 (Online) 5th April Morning Shift]

- (1) 0.12 (2) 0.25 (3) 0.50 (4) 0.75

Scan or tap for the
full solution



Q.2 The height in terms of radius of the earth (R), at which the acceleration due to gravity becomes $\frac{g}{9}$, where g is acceleration due to gravity on earth's surface, is _____.

[JEE Main 2026 (Online) 4th April Evening Shift]

- (1) $\sqrt{3}R$ (2) $2\sqrt{2}R$ (3) $2R$ (4) $\frac{4}{9}R$

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2										
Ans.	2	3										